Mr. Tim Brownfield
Globe Valve Division of Gerber Plumbing Fixtures Corporation
P.O. Box 278
Delphi, IN 46923

Re: 015-12663-00011
First Administrative Amendment to
Part 70 015-7521-00011

Dear Mr. Brownfield:

Globe Valve Division of Gerber Plumbing Fixtures Corporation was issued a permit on March 11, 1999 for a stationary brass foundry. A letter requesting to modify the permit's descriptive language for the charge handling operation, mold sand handling operation, $SO_2$ core making operation, and the polishing and buffing operation, was received on August 29, 2000 with additional information received on October 27, 2000. In addition, the source requests that the core knockout operation be removed from the permit since this operation has been removed from the source. The administrative amendment consists of the following:

1. Correcting the descriptive information of the charge handling process. This process is controlled by a baghouse which was not listed in the Part 70 Operating Permit. This control is not necessary to demonstrate compliance with 326 IAC 6-3 because the potential to emit before controls is less than allowable emissions. This change will not affect the compliance monitoring conditions, but will only be a revision to descriptive information;
2. Correcting the descriptive information of the mold sand handling operation. This correction will reflect that only one (1) baghouse is used to control the mold sand handling operation which does not affect the potential to emit of PM and $PM_{10}$ nor the compliance monitoring requirements. This change is considered a revision to descriptive information only.
3. Removing the core knockout operation from the permit which is considered an insignificant activity and therefore no significant changes are required. This change is considered a revision to descriptive information only.;
4. Correcting a typographical error to the $SO_2$ core making operations' descriptive information. The permit currently reads 160 pounds per hour per operation, but was previously permitted for 961 pounds per hour. Based on the Part 70 Permit application, this process was listed to have a throughout of 961 pounds per hour per operation. Therefore, this change is considered a revision to descriptive information only.
5. Revising the descriptive language for the polishing and buffing operation to reflect that this operation was originally controlled by a baghouse and this control was erroneously left out of the descriptive information.

Pursuant to the provisions of 2-7-11 the permit is hereby administratively amended as follows (changes are bolded and crossed out for emphasis):

1. Section A.2(1), Emission Units and Pollution Control Equipment Summary listed on page 5 of 46, is revised to reflect that the charge handling process was originally controlled by a baghouse as listed in the Part 70 Permit application submitted on December 12, 1996 and this control was erroneously left out of the descriptive information. The revision is as follows (changes are crossed out and bolded for emphasis):

   (1) One (1) charge handling process, identified as Charge Handling, with a maximum capacity of 3.13 tons metal per hour, ~~with no controls and exhausting internally~~ **using a baghouse for control and exhausting to stack C8**.

2. Section D.1(1), Facility Description listed on page 29 of 46, is revised to reflect that the charge handling process was originally controlled by a baghouse and this control was erroneously left out of the descriptive information. The revision is as follows (changes are crossed out and bolded for emphasis):

   (1) One (1) charge handling process, identified as Charge Handling, with a maximum capacity of 3.13 tons metal per hour, ~~with no controls and exhausting internally~~ **using a baghouse for control and exhausting to stack C8**.

3. Section A.2(3), Emission Units and Pollution Control Equipment Summary listed on page 5 of 46, is revised to reflect that only one (1) baghouse is used to control the mold sand handling operation as listed in the Part 70 Permit application submitted on December 12, 1996 . This change is a revision to descriptive information only and does not affect the compliance monitoring requirements listed under Condition D.1.5. The revision is as follows (changes are crossed out and bolded for emphasis):

   (3) One (1) mold sand handling operation, identified as Mold Sand Handling System, with a maximum capacity of 45.28 tons sand per hour, using ~~two (2)~~ **one (1)** baghouse~~s~~ for control and exhausting to stack~~s C8 and~~ C13.

4. Section D.1(3), Facility Description listed on page 29 of 46, is revised to reflect that only one (1) baghouse is used to control the mold sand handling operation listed in the Part 70 Permit application submitted on December 12, 1996. This change is a revision to descriptive information only and does not affect the compliance monitoring requirements listed under Condition D.1.5. The revision is as follows (changes are crossed out and bolded for emphasis):

   (3) One (1) mold sand handling operation, identified as Mold Sand Handling System, with a maximum capacity of 45.28 tons sand per hour, using ~~two (2)~~ **one (1)** baghouse~~s~~ for control and exhausting to stack~~s C8 and~~ C13.

5. The core knockout operation, identified as Yellow Brass Knockout which is listed in Sections A.3(5)- Specifically Regulated Insignificant Activities and D.1 - Facility Description, is removed from the permit because this operation has been removed from the source. Because the removal of this operation does not change any monitoring, record keeping or reporting requirements and does not violate any permit terms, this change is considered a revision to description information only. The following facilities are renumbered accordingly.

6. Section A.3(6) (now re-numbered as A..3(5)), Specifically Regulated Insignificant Activities listed on page 6 of 46, is revised to reflect that the polishing and buffing operation is controlled by one (1) baghouse as listed in the Part 70 Permit application submitted ion December 12, 1996 but was erroneously not listed in the description section. Compliance monitoring conditions for this baghouse are already specifically listed under Conditions D.1.4 through D.1.6. Therefore this request does not change any monitoring, record keeping or reporting requirements and does not violate any permit terms. This request is only a revision to description information only. The revision is as follows (changes are crossed out and bolded for emphasis):

   (6) One (1) polishing and **one (1)** buffing operation, identified as Yellow Brass Polishing and Buffing, with a maximum **combined** capacity of 1.23 tons metal per hour, ~~using no controls and exhausting internally~~ **using a baghouse for control and exhausting to stacks C3 (Polishing) and C14 (Buffing)**.

7. Section D.1, Facility Description listed on page 29 of 46, is revised to reflect that the polishing and buffing operation is controlled by one (1) baghouse as listed in the Part 70 Permit application submitted on December 12, 1996 but was erroneously not listed in the description section. Compliance monitoring conditions for this baghouse are already specifically listed under Conditions D.1.4 through D.1.6, therefore this request does not change any monitoring, record keeping or reporting requirements. This request is only a revision to description information only. The revision is as follows (changes are crossed out and bolded for emphasis):

   (~~4~~**3**) One (1) polishing and **one (1)** buffing operation, identified as Yellow Brass Polishing and Buffing, with a maximum **combined** capacity of 1.23 tons metal per hour, ~~using no controls and exhausting internally~~ **using a baghouse for control and exhausting to stacks C3 (Polishing) and C14 (Buffing)**.

8. Section A.2(15), Emission Units and Pollution Control Equipment Summary listed on page 6 of 46, is revised to reflect the correct throughput of the $SO_2$ core making operations. Based on the Part 70 Permit application, these operations have a throughput of 961 pounds per hour per operation. This is not an increase of the throughput nor the potential to emit for these processes, but a revision to descriptive information only. The revision is as follows (changes are crossed out and bolded for emphasis):

   (15) Three (3) $SO_2$ core making operations, identified as $SO_2$ Core Making, with a maximum capacity of ~~160~~ **961** pounds cores per hour per operation, using a wet scrubber for $SO_2$ control and exhausting to stack C15.

9. Section D.1(15), Facility Description listed on page 29 of 46, is revised to reflect the correct throughput of the $SO_2$ core making operations. Based on the Part 70 Permit application, these operations have a throughput of 961 pounds per hour per operation. This is not an increase of the throughput nor the potential to emit for these processes, but a revision to descriptive information only. This revision does not affect monitoring, record keeping or reporting requirements. The revision is as follows (changes are crossed out and bolded for emphasis):

   (15) Three (3) $SO_2$ core making operations, identified as $SO_2$ Core Making, with a maximum capacity of ~~160~~ **961** pounds cores per hour per operation, using a wet scrubber for $SO_2$ control and exhausting to stack C15.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Nysa L. James, at (800) 451-6027, press 0 and ask for Nysa L. James or extension (3-6875), or dial (317) 233-6875.

Sincerely,

Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

Attachments
NLJ
cc: File - Carroll County
U.S. EPA, Region V
Carroll County Health Department
Air Compliance Section Inspector - Eric Courtright
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

# PART 70 OPERATING PERMIT
# and ENHANCED NEW SOURCE REVIEW (ENSR)
# OFFICE OF AIR MANAGEMENT

## Globe Valve Division of Gerber Plumbing Fixtures Corporation
## 1514 West Washington
## Delphi, Indiana 46923

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

| | |
|---|---|
| Operation Permit No.: T015-7521-00011 | |
| Issued by:<br>Janet G. McCabe, Assistant Commissioner<br>Office of Air Management | Issuance Date: March 11, 1999 |
| First Minor Permit Modification No.:015-11748 | Pages Affected: Page 27, 31, 32,34,38, and 39 |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Management | Issuance Date: March 31, 2000 |
| First Administrative Amendment No.:015-12663 | Pages Affected: Page 5-7 and 29 |
| Issued by:<br>Paul Dubenetzky, Branch Chief<br>Office of Air Management | Issuance Date: |

## SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

### A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary brass foundry.

| | |
|---|---|
| Responsible Official: | Tim Brownfield, Director of Operations |
| Source Address: | 1514 West Washington, Delphi, IN 46923 |
| Mailing Address: | P.O. Box 278, Delphi, IN 46923 |
| SIC Code: | 3432, 3471 |
| County Location: | Carroll |
| County Status: | Attainment for all criteria pollutants |
| Source Status: | Part 70 Permit Program<br>Minor Source, under PSD Rules;<br>Major Source, Section 112 of the Clean Air Act |

### A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

(1) One (1) charge handling process, identified as Charge Handling, with a maximum capacity of 3.13 tons metal per hour, using a baghouse for control and exhausting to stack C8.

(2) Three (3) electric induction furnaces, identified as Red Brass Furnaces, with a maximum capacity of 3.13 tons metal per hour, using a baghouse for control and exhausting to stack C8.

(3) One (1) mold sand handling operation, identified as Mold Sand Handling System, with a maximum capacity of 45.28 tons sand per hour, using one (1) baghouse for control and exhausting to stack C13.

(4) One (1) pouring operation, identified as Red Brass Pouring, with a maximum capacity of 3.13 tons metal per hour and 45.28 tons sand per hour, using a baghouse for control, and exhausting to stack C8.

(5) One (1) cooling operation, identified as Red Brass Cooling, with a maximum capacity of 3.13 tons metal per hour and 45.28 tons sand per hour, with no controls, and exhausting internally.

(6) One (1) punchout, shakeout, and drum shakeout operation, in series, identified as Punchout, Shakeout, and Rotating Drum, with a maximum capacity of 3.13 tons metal per hour and 45.28 sand per hour, using a baghouse for control and exhausting to stack C13.

(7) One (1) shotblasting operation utilized by Red and Yellow Brass operations, identified as Shotblast 1, Shotblast 2, and Shotblast 3, with a maximum capacity of 4.36 tons metal per hour, using a baghouse for control and exhausting to stack C10.

(8) One (1) grinding operation utilized by Red and Yellow Brass operations, identified as Grinding, with a maximum capacity of 4.36 tons metal per hour, using a baghouse for control, and exhausting to stack C4.

(9) One (1) sand reclaiming operation, identified as Sand Reclaiming System, with a maximum capacity of 1.0 tons sand per hour, using a baghouse for control and exhausting to stack C11.

(10) One (1) brass reclaiming operation, identified as Brass Reclaiming System, with a maximum capacity of 0.01 ton metal per hour, using a baghouse for control, and exhausting to stack C9.

(11) Two (2) charge handling operations, identified as Charge Handling, with a maximum capacity of 0.41 tons metal per hour per line, using no controls and exhausting internally.

(12) Three (3) electric induction furnaces, identified as Yellow Brass Furnaces, with a maximum capacity of 0.41 tons metal per hour per furnace, using a baghouse for control, and exhausting to stack C12.

(13) Three (3) permanent molding operations, identified as Yellow Brass Permanent Molding, with a maximum capacity 0.41 tons metal per hour per operation, using a baghouse for control and exhausting to stack C12.

(14) One (1) dielectric core making operation, identified as Dielectric Core Making, with a maximum capacity of 259 pounds cores per hour, using no controls and exhausting internally.

(15) Three (3) $SO_2$ core making operations, identified as $SO_2$ Core Making, with a maximum capacity of 961 pounds cores per hour per operation, using a wet scrubber for $SO_2$ control and exhausting to stack C15.

(16) One (1) decorative chrome plating operation, identified as Decorative Chromium Plating, with a maximum capacity of 1,700 amp-hour per hour, using fume suppressant for control and exhausting through stack C16.

(17) One (1) natural gas fired boiler, identified as B-1, maximum heat input rate of 16.4 million British thermal units per hour (mmBtu/hr), using no controls and exhausting to stack S-1.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

(1) Cleaners and solvents characterized by having a vapor pressure equal to or less than 2kPa; 15mm Hg; or 0.3 psi measured at 38 degrees C (100E F).

(2) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment and welding equipment.

(3) One (1) oilsand core making operation, identified as Oilsand Core Making, with a maximum capacity of 50 pounds cores per hour, using no controls and exhausting internally.

(4) One (1) electric induction holding furnace, identified as Red Brass Holding Furnace, with a maximum capacity of 3.13 tons metal per hour, using a baghouse for control and exhausting to stack C8.

(5) One (1) polishing and one (1) buffing operation, identified as Yellow Brass Polishing and Buffing, with a maximum combined capacity of 1.23 tons metal per hour, using a baghouse for control and exhausting to stacks C3 (Polishing) and C14 (Buffing).

(6) One (1) shell core making operation, identified as Shell Core Making, with a maximum capacity of 500 pounds of cores per hour, using no controls and exhausting to the atmosphere.

(7) Two (2) natural gas fired boilers, identified as Boiler B-2 and B-3, maximum heat input rate of 4.1 million British thermal units per hour (mmBtu/hr) and 8.2 million British thermal units per hour (mmBtu/hr), respectively, using no controls and exhausting to stacks S-2 and S-3.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

(a) It is a major source, as defined in 326 IAC 2-7-1(22); and

(b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

**SECTION D.1 FACILITY OPERATION CONDITIONS**

Facility Description [326 IAC 2-7-5(15)]

(1) One (1) charge handling process, identified as Charge Handling, with a maximum capacity of 3.13 tons metal per hour, using a baghouse for control and exhausting to stack C8.

(2) Three (3) electric induction furnaces, identified as Red Brass Furnaces, with a maximum capacity of 3.13 tons metal per hour, using a baghouse for control and exhausting to stack C8.

(3) One (1) mold sand handling operation, identified as Mold Sand Handling System, with a maximum capacity of 45.28 tons sand per hour, using one (1) baghouse for control and exhausting to stack C13.

(4) One (1) pouring operation, identified as Red Brass Pouring, with a maximum capacity of 3.13 tons metal per hour and 45.28 tons sand per hour, using a baghouse for control, and exhausting to stack C8.

(5) One (1) cooling operation, identified as Red Brass Cooling, with a maximum capacity of 3.13 tons metal per hour and 45.28 tons sand per hour, with no controls, and exhausting internally.

(6) One (1) punchout, shakeout, and drum shakeout operation, in series, identified as Punchout, Shakeout, and Rotating Drum, with a maximum capacity of 3.13 tons metal per hour and 45.28 sand per hour, using a baghouse for control and exhausting to stack C13.

(7) One (1) shotblasting operation utilized by Red and Yellow Brass operations, identified as Shotblast 1, Shotblast 2, and Shotblast 3, with a maximum capacity of 4.36 tons metal per hour, using a baghouse for control and exhausting to stack C10.

(8) One (1) grinding operation utilized by Red and Yellow Brass operations, identified as Grinding, with a maximum capacity of 4.36 tons metal per hour, using a baghouse for control, and exhausting to stack C4.

(9) One (1) sand reclaiming operation, identified as Sand Reclaiming System, with a maximum capacity of 1.0 tons sand per hour, using a baghouse for control and exhausting to stack C11.

(10) One (1) brass reclaiming operation, identified as Brass Reclaiming System, with a maximum capacity of 0.01 ton metal per hour, using a baghouse for control, and exhausting to stack C9.

(11) Two (2) charge handling operations, identified as Charge Handling, with a maximum capacity of 0.41 tons metal per hour per line, using no controls and exhausting internally.

(12) Three (3) electric induction furnaces, identified as Yellow Brass Furnaces, with a maximum capacity of 0.41 tons metal per hour per furnace, using a baghouse for control, and exhausting to stack C12.

(13) Three (3) permanent molding operations, identified as Yellow Brass Permanent Molding, with a maximum capacity 0.41 tons metal per hour per operation, using a baghouse for control and exhausting to stack C12.

(14) One (1) dielectric core making operation, identified as Dielectric Core Making, with a maximum capacity of 259 pounds cores per hour, using no controls and exhausting internally.

(15) Three (3) $SO_2$ core making operations, identified as $SO_2$ Core Making, with a maximum capacity of 961 pounds cores per hour per operation, using a wet scrubber for $SO_2$ control and exhausting to stack C15.

Insignificant Activities:

(1) One (1) oilsand core making operation, identified as Oilsand Core Making, with a maximum capacity of 50 pounds cores per hour, using no controls and exhausting internally.

(2) One (1) electric induction holding furnace, identified as Red Brass Holding Furnace, with a maximum capacity of 3.13 tons metal per hour, using a baghouse for control and exhausting to stack C8.

(3) One (1) polishing and one (1) buffing operation, identified as Yellow Brass Polishing and Buffing, with a maximum combined capacity of 1.23 tons metal per hour, using a baghouse for control and exhausting to stacks C3 (Polishing) and C14 (Buffing).

(4) One (1) shell core making operation, identified as Shell Core Making, with a maximum capacity of 500 pounds of cores per hour, using no controls and exhausting to the atmosphere.